

O'Neil 2000-0362

IN THE CLAIMS:1. - 6. *cancelled*

7. (*currently amended*) A method for facilitating pre-loading information content to caches for information appliances, comprising:

creating a new scheduled pre-loading upon instruction by a user; and

storing information concerning at least one event associated with the scheduled pre-loading, wherein the information comprises at least one of:

the location of the event;

the type of the event; and

the date and time when the event takes place; and

deleting an existing scheduled pre-loading upon instruction by the user, wherein the deleting comprises the steps of:

receiving a request to delete a scheduled pre-loading, wherein the request is associated with an event;

retrieving a network address of a proxy server and a transaction identifier unique to the scheduled pre-loading;

transmitting a request to delete the scheduled pre-loading to the proxy server, wherein the request contains the transaction identifier; and

deleting the network address of the proxy server and the transaction identifier.

8. - 9. *cancelled*

10. (*currently amended*) The method of claim 9 further comprising:
retrieving a network address of a temporary proxy server if the destination associated with the event was not specified when the pre-loading was scheduled.

O'Neil 2000-0362

11. *(original)* The method of claim 7, wherein the creating step further comprises:

receiving a request to create a scheduled pre-loading, wherein the request is associated with an event;

receiving a network address of a proxy server, wherein the proxy server contains a cache associated with a second information appliance associated with the event;

transmitting a request to pre-load the information content to the proxy server;

receiving an acknowledging message from the proxy server, wherein the message contains a transaction identifier unique to the request; and

storing the network address of the proxy server and the transaction identifier in association with the event.

12. *(original)* The method of claim 11, further comprising:

receiving a network address of a temporary proxy server if the destination associated with the event has not yet been specified.

13. *(original)* The method of claim 11, wherein a storage means for a plurality of proxy directories contains a plurality of proxy addresses associated with a plurality of locations where the pre-loaded information content can be used.

14. *(original)* The method of claim 13, wherein the plurality of locations where the pre-loaded information content can be used comprises at least one of the following:

an aircraft;

a hotel;

a rental car;

a location within a university;

an internet service provider; and

an automobile.

15. *(original)* The method of claim 14, wherein the proxy directory for the aircraft comprises:

O'Neil 2000-0362

name of an airline;
a flight number;
a departure date and time associated with the flight number; and
the associated proxy address.

16. *(original)* The method of claim 14, wherein the proxy directory for the hotel comprises:

name of a hotel;
an identifier uniquely associated with a reservation made by a user; and
the associated proxy address.

17. *(original)* The method of claim 14, wherein the proxy directory for the rental car comprises:

an identifier uniquely associated with a reservation for the rental car made by a user; and
the associated proxy address.

18. *(original)* The method of claim 14, wherein the proxy directory for the location within a university comprises:

a name of a university;
a name of a building within the university;
a room number within the building; and
the associated proxy address.

19. *(original)* The method of claim 14, wherein the proxy directory for the internet service provider comprises:

an indicator identifying the user subscribed to the internet service provider; and
the associated proxy address.

20. *(original)* The method of claim 14, wherein the proxy directory for the automobile comprises:

O'Neil 2000-0362

an identifier uniquely associated with the automobile; and
the associated proxy address.

21. *(currently amended)* A method for facilitating pre-loading information content to caches for information appliances, comprising:
processing a request to create a new scheduled pre-loading; and
executing one or more pre-loadings according to a scheduled table; and
processing a request to delete an existing scheduled pre-loading by
receiving a request to delete a pre-loading, the request containing a unique
identifier associated with the pre-loading;
reading the scheduled table to identify an entry with a matching unique
identifier;
deleting the identified entry from the scheduled table; and
transmitting an acknowledgement to the requestor.

22. - 24. *cancelled*

25. *(currently amended)* The method according to claim 21, wherein processing the request to create a new scheduled pre-loading further comprises:
receiving a request to recreate a pre-loading;
generating a unique identifier associated with the request for pre-loading;
adding the request to the scheduled table; and
transmitting the unique identifier associated with the request for pre-loading and a proxy address where the pre-loading takes place to the requestor.

26. *(original)* The method according to claim 21, wherein executing one or more pre-loadings according to a scheduled table comprises:
idling for a predetermined period of time;
setting a counter equal to number of entries in the scheduled table;
reading an entry in the scheduled table at a position equal to the counter; and
reading the indication for status of pre-loading.

O'Neil 2000-0362

27. *(original)* The method according to claim 26, wherein if the indication shows that pre-loading has not started, executing one or more pre-loadings according to a scheduled table further comprises:

- reading the time duration for the information content to be pre-loaded to determine that it is after the current time;

- pre-loading the information content;

- setting the indication for status of pre-loading to pre-load completed;

- decrementing the counter;

- reading the counter, wherein if the counter reads less than zero, then returning to idle for a predetermined period of time, and if the counter does not read less than zero, then returning to reading an entry in the scheduled table at a position equal to the counter.

28. *(original)* The method of claim 27, wherein if the time duration for the information content to be pre-loaded is determined to be after the current tie, then immediately decrement the counter.

29. *(original)* The method of claim 21, further comprising a method for generating financial charges for pre-loading information content, comprising:

- monitoring activities of a plurality of proxy servers; and

- generating billing to a user depending on the activities.

30. - 35. *cancelled*

36. *(currently amended)* A method for facilitating pre-loading information content to caches for information appliances, comprising:

- creating a new scheduled pre-loading if instructed by a user, wherein the creating step comprises:

- receiving a request to create a scheduled pre-loading, wherein the request is associated with an event;

O'Neil 2000-0362

receiving a network address of the information content from a first information appliance;

receiving a network address of a proxy server, wherein the proxy server contains a cache associated with a second information appliance associated with the event;

transmitting a request to pre-load the information content to the proxy server;

receiving an acknowledging message from the proxy server, wherein the message contains a transaction identifier unique to the request; and

storing the network address of the proxy server and the transaction identifier in association with the event; and

deleting an existing scheduled pre-loading if instructed by the user, wherein the deleting step comprises:

receiving a request to delete a scheduled pre-loading, wherein the request is associated with an event;

retrieving a network address of a proxy server and a transaction identifier unique to the scheduled pre-loading;

transmitting a request to delete the scheduled pre-loading to the proxy server, wherein the request contains the transaction identifier; and

deleting the network address of the proxy server and the transaction identifier.

38. (original) The method of claim 37, wherein the deleting step further comprises:

retrieving a network address of a temporary proxy server if the destination associated with the event was not specified when the pre-loading was scheduled.

39. (original) The method according to claim 36, further comprising:

storing information concerning at least one event associated with the scheduled pre-loading, wherein the information comprises at least one of:

the location of the event;

O'Neil 2000-0362

the type of the event; and
the date and time when the event takes place.

40. *(original)* The method of claim 36, wherein the creating step further comprises:

receiving a network address of a temporary proxy server if the destination associated with the event has not yet been specified.

41. *(original)* The method of claim 36, wherein a storage means for a plurality of proxy directories contains a plurality of proxy addresses associated with a plurality of locations where the pre-loaded information can be used.

42. *(original)* The method of claim 41, wherein the plurality of locations where the pre-loaded information content can be used comprises at least one of the following:

- an aircraft;
- a hotel;
- a rental car;
- a location within a university;
- an internet service provider; and
- an automobile.

43. *(original)* The method of claim 42, wherein the proxy directory for the aircraft comprises:

- name of an airline;
- a flight number;
- a departure date and time associated with the flight number; and
- the associated proxy address.

44. *(original)* The method of claim 42, wherein the proxy directory for the hotel comprises:

- name of a hotel;

O'Neil 2000-0362

an identifier uniquely associated with a reservation made by a user; and
the associated proxy address.

45. *(original)* The method of claim 42, wherein the proxy directory for the rental car company comprises:

an identifier uniquely associated with a reservation for the rental car made by a user; and
the associated proxy address.

46. *(original)* The method of claim 42, wherein the proxy directory for the location within a university comprises:

name of a university;
name of a building within the university;
a room number within the building; and
the associated proxy address.

47. *(original)* The method of claim 42, wherein the proxy directory for the internet server provider comprises:

an indicator identifying that the user is a subscriber of the internet service provider; and
the associated proxy address.

48. *(original)* The method of claim 42, wherein the proxy directory for the automobile comprises:

an identifier uniquely associated with the automobile; and
the associated proxy address.

49. *(currently amended)* A method for facilitating pre-loading information content to caches for information appliances, comprising:

processing a request to create a new scheduled pre-loading, comprising:
receiving a request to create a pre-loading;

O'Neil 2000-0362

generating a unique identifier associated with the request for pre-loading;
adding the request to the scheduled table; and
transmitting the unique identifier associated with the request for pre-loading and a proxy address where the pre-loading takes place to the requestor; and
processing a request to delete an existing scheduled pre-loading, comprising:
receiving a request to delete a pre-loading, the request containing a unique
identifier associated with the pre-loading;
reading the scheduled table to identify an entry with a matching unique
identifier;
deleting the identified entry from the scheduled table; and
transmitting an acknowledgement to the requestor; and
executing one or more pre-loads according to a scheduled table.

50. cancelled

51. (original) The method according to claim 49, wherein the scheduled table comprises:

a unique identifier associated with the pre-loading;
an indicator identifying the user who made the request for the pre-loading;
an address of the information content;
a starting position for pre-loading in the information content;
the time duration for the information content to be pre-loaded; and
an indication for status of pre-loading, comprising at least one of the following indicators:

pre-loading not started;
pre-loading in progress; and
pre-loading completed.

52. (original) The method according to claim 49, wherein executing one or more pre-loads according to a scheduled table comprises:
idling for a predetermined amount of time;

O'Neil 2000-0362

setting a counter to equal to a number of entries in the scheduled table;
reading an entry in the scheduled table at a position equal to the counter; and
reading the indication for status of pre-loading.

53. *(original)* The method according to claim 52, wherein if the indication shows that pre-loading has not started, executing one or more pre-loadings according to a scheduled table further comprises:

reading the time duration for the information content to be pre-loaded to
determine that it is after the current time;
pre-loading the information content;
setting the indication for status of pre-loading to pre-load completed;
decrementing the counter;
reading the counter, wherein if the counter reads less than zero, then returning to
idle for a predetermined period of time, and if the counter does not read less than zero,
then returning to reading an entry in the scheduled table at a position equal to the counter.

54. *(original)* The method of claim 53, wherein if the time duration for the
information content to be pre-loaded is determined to be after the current time, then
immediately decrement the counter.